

4151

Diag. Ch. No. 1231-1

4151

Form 501
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <i>North Carolina</i>
31-5613
DESCRIPTIVE REPORT.
<i>Hydro</i> Sheet No. <i>4151</i>
LOCALITY:
<i>Tenue River -</i>
<i>South River from</i>
<i>entrance to Eastmans</i>
<i>Creek.</i>
<i>1920</i>
CHIEF OF PARTY:
<i>L. H. Hawley</i>

DESCRIPTIVE REPORT
to accompany
Hydrographic Sheet No. 5

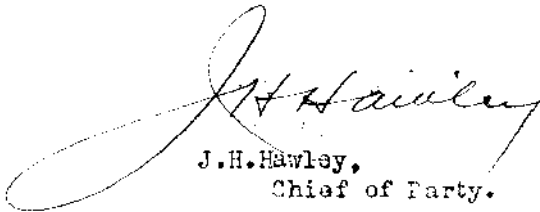
This sheet shows the hydrographic survey of South River, N.C., from the entrance to Eastmans Creek done in accordance with instructions dated July 14, 1920. This work was done at times when outside work was prevented by bad weather.

Signals for the control of this work were located by plane table triangulation starting from triangulation stations at the mouth of the river. Launches and cutter under oars and sail were used for the work.

The water is quite deep at the entrance to the river and the bottom drops abruptly from the shoal on the west side of the entrance on which the entrance beacon is located. This shoal extends to the eastward beyond the beacon and it is necessary to hold the entering course for a distance of about 300 feet past the beacon before heading to pass spar buoy No. 3. The bottom on the shoal is mud with a red tint which shows up very well unless the sun is on the opposite side from the observer.

During northeasters the sea is quite rough at the entrance but is cut down by the shoal point to the eastward before Buoy No. 1 is reached.

At Coffee Creek, a small bight on the east side of the river about $2\frac{1}{2}$ miles from the entrance beacon, there is a small sawmill operated by the Oriental Lumber Company. The depth in the creek is about 4 feet and there are a few small ramshackle wharves on the south side of the bight.



J.H. Hawley,
Chief of Party.

HYDROGRAPHIC SHEET NO. 5.
South River, N.C.

Tide gauge at Coffee Creek, South River, used for reduction of soundings except on last day of work.

Plane of reference is mean sea level minus 0.5 foot.
Gauge reading corresponding to plane of reference is 2.4 feet.

Highest tide observed	4.1 feet on gauge.
Lowest tide observed	3.15 feet on gauge.

Gauge at Neuse River L.H. used for reduction of soundings on October 20, 1920.

Plane of reference is mean sea level minus 0.5 foot.	
Gauge reading corresponding to plane of reference is 3.6 feet.	
Highest tide observed	5.5 feet on staff.
Lowest tide observed	3.0 feet on staff.

SOUTH RIVER, NORTH CAROLINA.

STATISTICS

Sheet No. 5

Date 1920	:	Let.	:	Vol.	:	Posi- tions.	:	Sound- ings	:	Miles Statute	:	Vessel
Aug. 25	:	a	:	1	:	34	:	315	:	4.0	:	Cutter
Sept. 2	:	b	:	1	:	38	:	561	:	5.25	:	"
" 3	:	c	:	1	:	41	:	336	:	8.75	:	Launch #56
" 17	:	d	:	1	:	49	:	392	:	9.25	:	"
Oct. 8	:	e	:	1-3	:	81	:	558	:	14.0	:	Navy & #56
" 20	:	f	:	2	:	86	:	577	:	12.5	:	" launch
Total -----						329	:	2739	:	53.75	:	

INDEX OF SIGNALS.
Hydrographic Sheet No. 5.

Hydrographic
name

Full name, location, etc.

Out
Brown

South River beacon, triangulation, 1920.
Brown 2, triangulation, 1920.

All other signals from topographic sheet No. 2.

Location, blk, spar buoy No. 1
" " " " " 3

page 8, Vol. 2, Sounding record.
" 3 " 2 " "

DIRECTOR
ADDRESS THE ~~ADJUTANT GENERAL~~
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No.

41/VFB

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 18, 1921.

FIELD RECORDS (C)



Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4151

South River, North Carolina
J. H. Hawley in 1920

Plane of reference is
Mean Sea Level -0.5 ft., reading = *Mean low water*

2.4 ft. on tide staff at Coffee Creek, South River
3.6 ft. " " " " Neuse River Lighthouse

Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4151.

Surveyed in 1920.

Chief of Party: J. H. Hawley. Surveyed by F. E. Okeson.

Protracted and soundings plotted by B. H. Rigg.

Verified and inked by E. M. Vincent.

1. The records and the plan and character of the development conform to the requirements of the General Instructions.
2. The plan and character of the development satisfy the specific instructions.
3. The sounding line crossings are adequate.
4. The development is sufficient to permit the depth curves to be drawn, except in some unimportant places.
5. The field plotting was completed to the extent prescribed in the General Instructions and none of it had to be done over again by the office draftsman.
6. The junction with adjacent contemporary work is good.
7. * A 3 foot sounding outside of the 6 foot curve opposite South River Beacon is evidently one fathom too shoal, but has been retained for lack of proof of its non-existence.
8. No further surveying is required in this river.
9. The surveying and field drafting are excellent.
10. Reviewed by E. P. Ellis, May, 1921 and two copies of this report to be sent to Hydrography and Topography Division.

* Revision of the plotting throws the 3 ft sounding
inside of the 6 ft curve
E.P.E.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4151 Field No. 5

State North Carolina

General locality Neuse River

Locality South River from entrance to Eastmans Creek

Chief of party J.H.Hawley

Surveyed by F.E.Okason

Date of survey August 25 to October 20, 1920.

Scale 1 : 10,000

Soundings in Fath

Plane of reference Mean sea level minus 0.5 foot

Protracted by B.H.Rigg Soundings in pencil by B.H.Rigg

Inked by E.M.Vincent Verified by E.M.Vincent

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, _____ Marigrams, 1 Boat sheets,

2 Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks: